

Abstract of the Disclosure

The invention provides a system and method for managing clusters of parallel processors for use by groups and individuals requiring supercomputer level computational power. A Beowulf cluster provides supercomputer level processing power. Unlike a traditional Beowulf cluster; however, cluster size is not singular or static. As jobs are received from users/customers, a Resource Management System (RMS) dynamically configures and reconfigures the available nodes in the system into clusters of the appropriate sizes to process the jobs. Depending on the overall size of the system, many users may have simultaneous access to supercomputer level computational processing. Users are preferably billed based on the time for completion with faster times demanding higher fees.